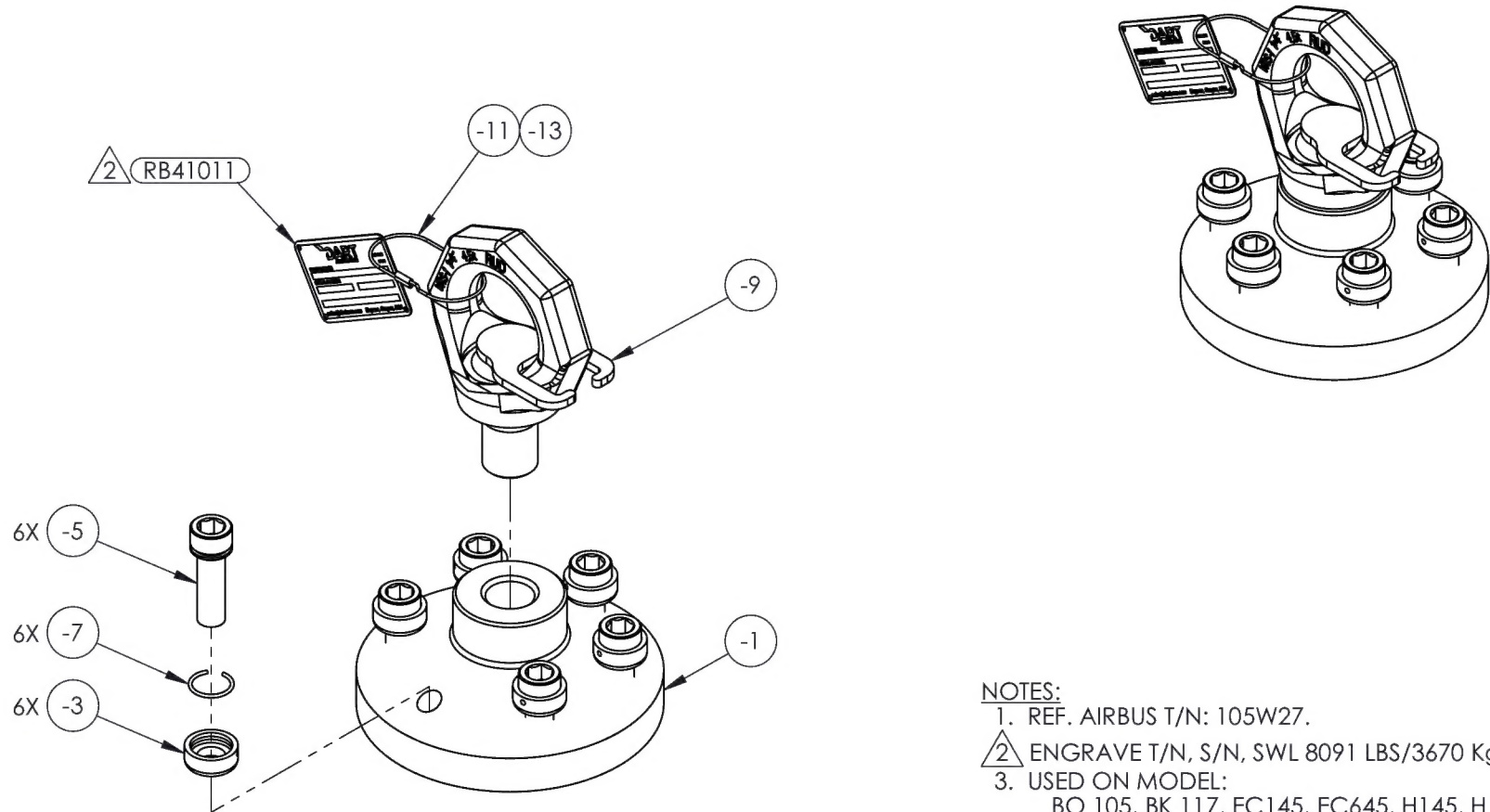


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION.	5/26/2017	DPD	JAG



#### NOTES:

1. REF. AIRBUS T/N: 105W27.
2. ENGRAVE T/N, S/N, SWL 8091 LBS/3670 Kg.
3. USED ON MODEL:  
BO 105, BK 117, EC145, EC645, H145, H145M.



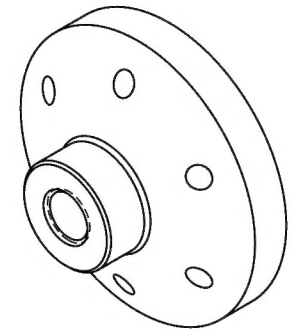
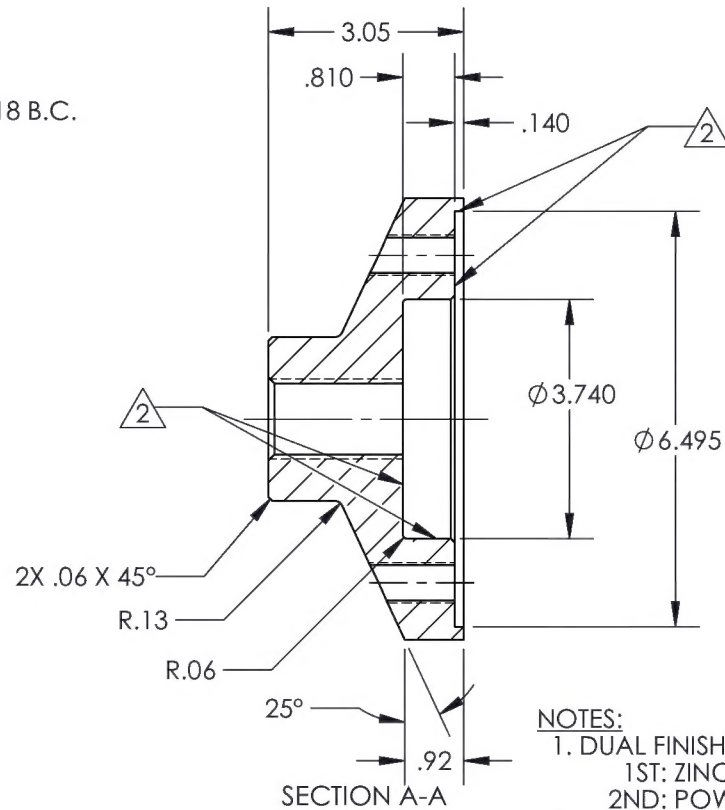
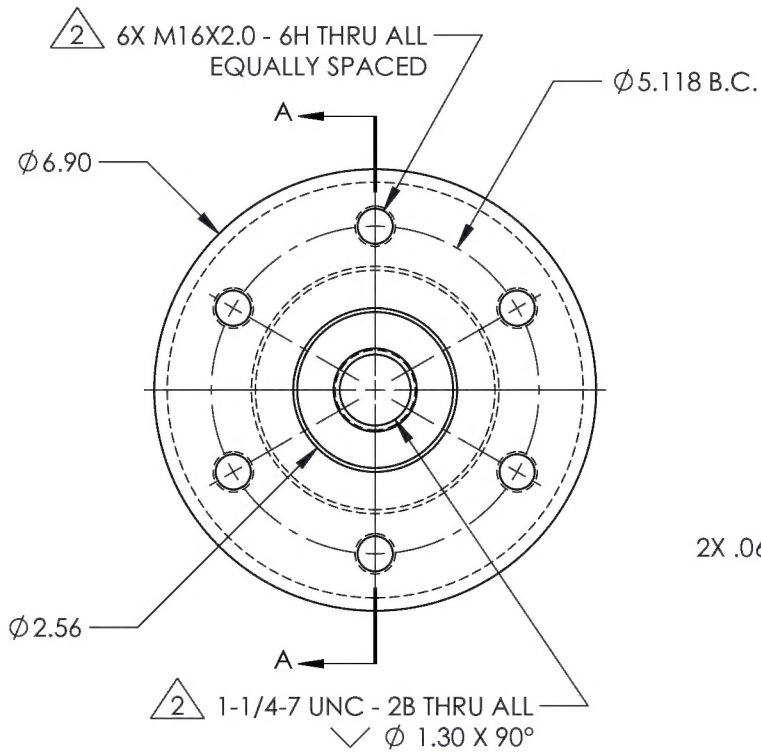
TITLE  
MAIN GEAR BOX HOISTING DEVICE

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.	DWG NO.	REV
			-1	1	ADAPTER	4140/4142		2	RBE105W27	1
			-3	6	SPECIAL WASHER	4140/4142		3		
			-5	6	SOCKET HEAD CAP SCREW	STEEL	M16 X 2mm X 50mm, CLASS 12.9 (MCMaster-CARR #91290A820) MODIFIED	4		
		B/O	-7	6	ROUND WIRE SNAP RING	STEEL	Ø2mm X Ø25mm (FASTENAL #11509175)	1		
		B/O	-9	1	LIFTING BOLT	STEEL	1-1/4-7 x 1-7/8, Ø2-3/8 I.D., WLL 9920 LBS (FASTENAL #0502648)	1		
		B/O	-11	1	LANYARD	COATED STEEL	Ø1/16 X 3 (CARR LANE #CL-2-C)	1		
		B/O	-13	1	FERRULE	ALUMINUM	Ø1/16 X 3/8 (MCMaster-CARR #3896T31)	1		
		B/O		1	DART PLACARD	ALUMINUM	RB41011	1		

DWG NO.		RBE105W27		REV	1
MAT'L		UNLESS OTHERWISE SPECIFIED			
HEAT TREAT		DIMENSIONS ARE IN INCHES			
FINISH		.XXX ± .005 FRACTIONS ± 1/8			
SPEC		.XX ± .01 ANGLES ± 5°			
		.X ± .1 SURFACES = 125 ✓			
DRAWN BY:		DD 05/01/2017			
CHECKED:		SM 05/04/2017			
OPPS APPR:		AA 05/10/2017			
QA APPR:		JL 05/24/2017			
APPROVED:		JAG 06/08/2017			
		USED ON MODEL			
		SEE NOTE 3			
SCALE		1:4	DATE	5/1/2017	SHEET 1 OF 5

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REVISIONS						
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED	



- NOTES:
- DUAL FINISH:  
1ST: ZINC PLATE, ASTM B633 TYPE I SC2.  
2ND: POWDER COAT YELLOW, FED #13538.
  - NO POWDER COAT THIS SURFACE.

(-1)  
ADAPTER

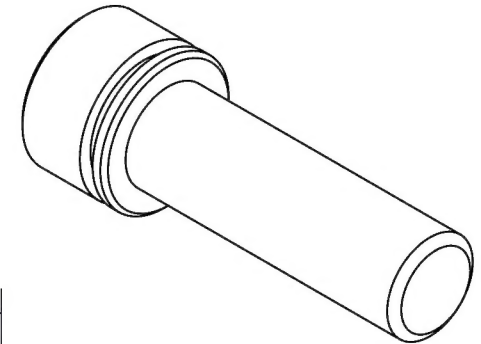
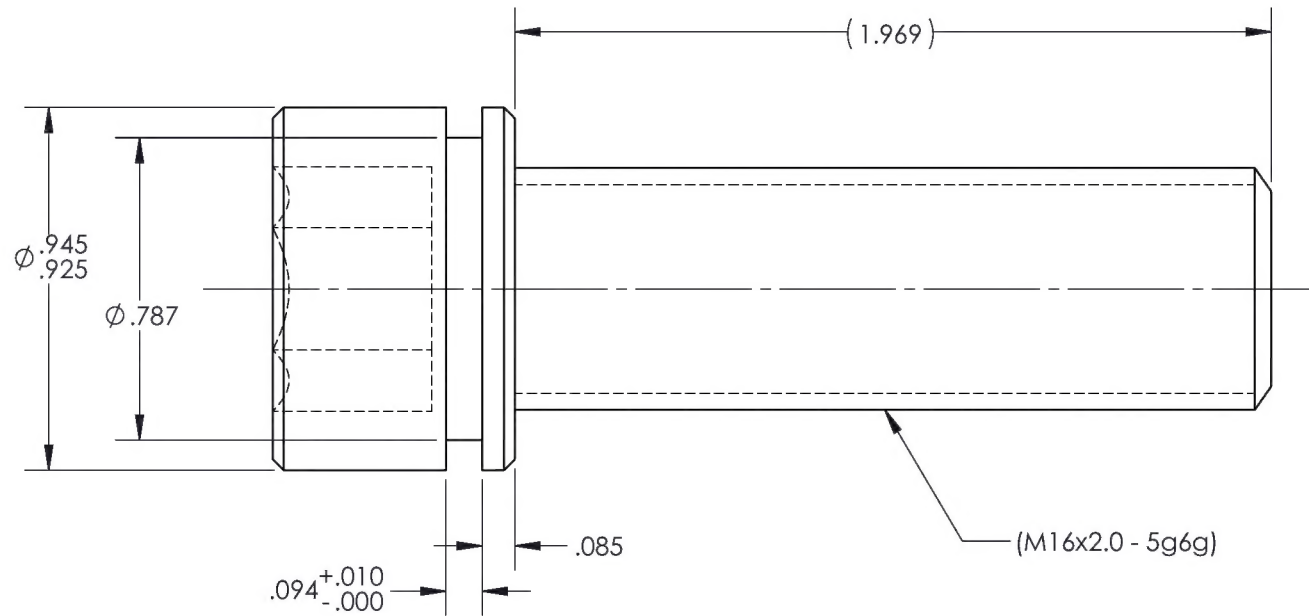
			
TITLE MAIN GEAR BOX HOISTING DEVICE			
DWG NO. RBE105W27-1			REV 1
MAT'L 4140/4142		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125/✓	
HEAT TREAT RC 37-43			
FINISH SEE NOTE			
SPEC			
DRAWN BY:	DD 05/01/2017	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED:	SM 05/04/2017	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR:	AA 05/10/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR:	JL 05/24/2017	USED ON MODEL	
APPROVED:	JAG 06/08/2017	SEE NOTE 3, SHEET 1	
SCALE	1:3	DATE	5/1/2017
		SHEET 2 OF 5	

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED



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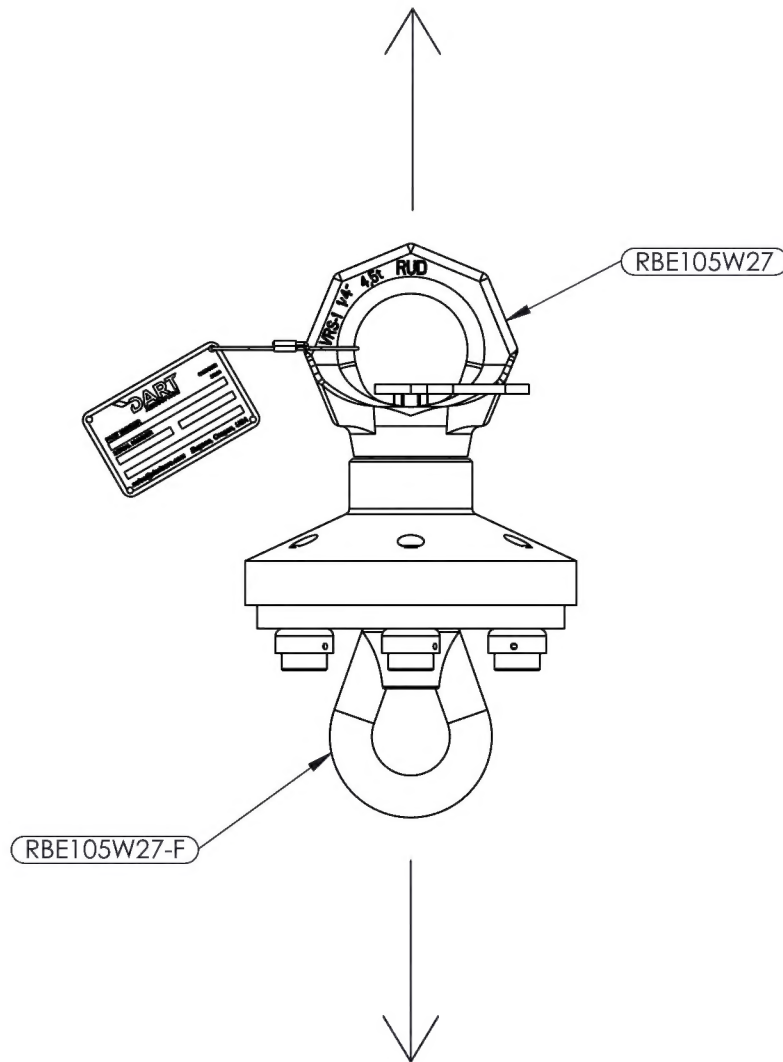
REVISIONS			
REV	ECR	DESCRIPTION	DATE
			INITIAL
			APPROVED



(5)  
SOCKET HEAD CAP SCREW

<b>DART AEROSPACE</b>	
TITLE MAIN GEAR BOX HOISTING DEVICE	
DWG NO. RBE105W27-5	REV 1
MAT'L STEEL	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH BLACK OXIDE	.XXX ± .005 FRACTIONS ± 1/8
SPEC QMSI-6.2.2, B.O. REV D	.XX ± .01 ANGLES ± 5°
DRAWN BY: DD 05/01/2017	.X ± .1 SURFACES = 125
CHECKED: SM 05/04/2017	1. BREAK ALL SHARP EDGES
OPPS APPR: AA 05/10/2017	.015 x 45° OR .015R
QA APPR: JL 05/24/2017	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
APPROVED: JAG 06/08/2017	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 2:1	DATE 5/1/2017
	SHEET 4 OF 5

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INSPECTION & TESTING PROCEDURES FOR THE  
RBE105W27 MAIN GEAR BOX HOISTING DEVICE.  
INSPECT THIS ASSEMBLY BEFORE EACH USE.  
REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED  
OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, ATTACH THE MAIN GEAR BOX HOISTING DEVICE TO TEST FIXTURE RBE105W27-F.
2. ATTACH WEIGHT OF 7,340kg. / 16,182 LBS.
3. LIFT WEIGHT FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
4. REMOVE WEIGHT AND RE-INSPECT SLING, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: \_\_\_\_\_

TESTER: \_\_\_\_\_

S/N: \_\_\_\_\_

DATE: \_\_\_\_\_



190 S. Danebo Ave., Eugene, OR. 97402  
1-800-556-4166  
e-mail: sales@dartaero.com  
dartaerospace.com

TITLE MAIN GEAR BOX HOISTING DEVICE			
DWG NO. RBE105W27	REV 1	CUSTOMER 1 OF 1	
SCALE 1:4	DATE 5/1/2017	SHEET	5 OF 5